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OM protein - protein search, using sw model

Run on: March 17, 2001, 21:10:03 ; Search time 65.38 Seconds

(without alignments)
159,026 Million cell updates/sec

Title: US-09-456-306-2

Perfect score: 2965

Sequence: 1 MAHSVAEQLIDTLEAGCYK.....GGVAMIDLARSNIRNIFTP 579

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 174772 seqs, 17957048 residues

Total number of hits satisfying chosen parameters: 174772

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_AA:*

1: /cgn2_6/ptodata/2/1aa/5A_COMB.pep:*

2: /cgn2_6/ptodata/2/1aa/5B_COMB.pep:*

3: /cgn2_6/ptodata/2/1aa/6_COMB.pep:*

4: /cgn2_6/ptodata/2/1aa/PCRTUS_COMB.pep:*

5: /cgn2_6/ptodata/2/1aa/Backfile1.pep:*

Result No.	Score	Query Match Length	ID	Description
1	561	18.8	585 2	US-08-426-125-2
2	561	18.8	585 2	US-08-455-355-2
3	514	17.2	548 2	US-08-452-075-3
4	497.5	16.7	671 2	US-08-426-125-8
5	497.5	16.7	671 2	US-08-455-355-8
6	493	16.5	670 1	US-08-363-208-2
7	477	16.0	652 2	US-08-426-125-9
8	477	16.0	652 2	US-08-455-355-9
9	454	15.2	664 2	US-08-426-125-7
10	454	15.2	664 2	US-08-455-355-7
11	454	15.2	667 2	US-08-426-125-6
12	454	15.2	667 2	US-08-455-355-6
13	451	15.1	599 2	US-08-426-125-1
14	451	15.1	599 2	US-08-426-125-3
15	451	15.1	599 2	US-08-455-355-1
16	451	15.1	599 2	US-08-455-355-3
17	451	15.1	638 2	US-08-426-125-4
18	451	15.1	638 2	US-08-455-355-4
19	449	15.0	575 1	US-08-403-866-7
20	442	14.8	638 2	US-08-426-125-5
21	442	14.8	638 2	US-08-455-355-5
22	441.5	14.8	637 2	US-08-426-125-10
23	441.5	14.8	637 2	US-08-455-355-10
24	438	14.6	648 1	US-08-321-356-4
25	437	14.6	648 1	US-08-321-356-2
26	365	12.2	554 1	US-07-839-433-2
27	332	11.1	578 1	US-08-458-120-2
28	332	11.1	578 1	US-08-867-970-2

SUMMARIES

29	278.5	9.3	331 2	US-08-245-511-58	Sequence 58, Appl
30	278.5	9.3	331 2	US-08-600-993A-58	Sequence 58, Appl
31	222	7.4	568 1	US-08-262-424-7	Sequence 7, Appl
32	222	7.4	568 2	US-08-493-197-7	Sequence 7, Appl
33	222	7.4	568 2	US-08-717-587A-4	Sequence 4, Appl
34	222	7.4	568 3	US-08-883-610A-4	Sequence 4, Appl
35	222	7.4	568 4	US-08-883-610A-4	Sequence 4, Appl
36	213.5	7.2	337 5	US-07-5202251-1	Sequence 2, Appl
37	196	6.6	552 1	US-07-662-223-2	Sequence 2, Appl
38	128	4.3	3567 2	US-07-642-734C-4	Sequence 4, Appl
39	128	4.3	3567 3	US-08-439-009A-4	Sequence 4, Appl
40	126	4.2	3119 1	US-08-246-982A-16	Sequence 16, Appl
41	126	4.2	3119 1	US-08-453-265-16	Sequence 16, Appl
42	124.5	4.2	3729 2	US-08-804-227C-4	Sequence 4, Appl
43	121.5	4.1	3118 2	US-08-457-273B-8	Sequence 8, Appl
44	121	4.1	2647 2	US-08-583-562B-8	Sequence 8, Appl
45	121	4.1	2647 2	US-08-779-113-8	Sequence 8, Appl

ALIGNMENTS

RESULT 1
US-08-426-125-2
Sequence 2, Application US/08426125
Patent No. 5853973
GENERAL INFORMATION:
APPLICANT: Kakefuda, Genichi
APPLICANT: Olt, Karl Heinz
APPLICANT: Kwagh, Jae-Gyu
TITLE OF INVENTION: Stockton, Gerald W.
TITLE OF INVENTION: Structure-Based Designed Herbicide
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dardy & Dardy
STREET: 805 Third Avenue
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10022-7513
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/426,125
FILING DATE: 20-APR-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Rodinson, Joseph
REGISTRATION NUMBER: 33,448
REFERENCE/DOCKET NUMBER: 0646/0A674
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212)-527-7783
TELEFAX: (212)-753-6237
TELEX: 236687
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 585 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Lactobacillus plantarum
US-08-426-125-2
Query Match 18.8%; Score 561; DB 2; Length 585;
Best Local Similarity 27.3%; Pred. No. 5, 8e-48;

Matches 146;	Conservative 118;	Mismatches 250;	Indels 20;	Gaps 8
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QY      9 LDITLEAGCKRTYGLVGSINPIYAAV--RQSDIEKHYNRNEEAAFAAGASLTITGDL 66
      9 VIVLLEMGVDHLYGLIPGGSINSIMSLAERRIHRYIOWRHEEVEGAMAAADAKTLGKI 68
Db      9 VIVLLEMGVDHLYGLIPGGSINSIMSLAERRIHRYIOWRHEEVEGAMAAADAKTLGKI 68
QY      67 AWCASGCPNTHLIGLVDSHRNGAKVLTAISHIESAOGISGFPEFETRELTFKSCSY 126
      67 AWCASGCPNTHLIGLVDSHRNGAKVLTAISHIESAOGISGFPEFETRELTFKSCSY 126
Db      69 GVOFGSAGPGGTHLMNGLVDAREDNHPLALIQFETTGGMNDTFOEMENPIYADVDY 128
      69 GVOFGSAGPGGTHLMNGLVDAREDNHPLALIQFETTGGMNDTFOEMENPIYADVDY 128
QY      127 CEVANGSGEGGERLLHHAISTMAKGVSVVYIPGDIKEDAGDGYTNSSTISSGPFV-F 185
      127 CEVANGSGEGGERLLHHAISTMAKGVSVVYIPGDIKEDAGDGYTNSSTISSGPFV-F 185
Db      129 NWTAVNAATLPHVYIDALIKRAVYAHOGVAVVOIPVDLPWQOISAEWDYASANNYQPLPE 188
      129 NWTAVNAATLPHVYIDALIKRAVYAHOGVAVVOIPVDLPWQOISAEWDYASANNYQPLPE 188
QY      186 PDPTFAALVEALENNKSVTLFCGAGVKNARQVLELAKIKSPIGHALGCOYIOWENP 245
      186 PDPTFAALVEALENNKSVTLFCGAGVKNARQVLELAKIKSPIGHALGCOYIOWENP 245
Db      189 PDQVQATRLQITLLAERFLIYIGIARAKGKELDOLSKTLKIPLMSTYPAKGIYADRP 248
      189 PDQVQATRLQITLLAERFLIYIGIARAKGKELDOLSKTLKIPLMSTYPAKGIYADRP 248
QY      246 FEVWMSGLLGYGACVDASNEADLLILLGTDPFYSD---FLPRDNVAYQDINCANIGRPT 301
      246 FEVWMSGLLGYGACVDASNEADLLILLGTDPFYSD---FLPRDNVAYQDINCANIGRPT 301
Db      249 AYLGSANRYAOKRPNALAQADVULTEVGNPNYFAEVSKAFTKNTREPLQIDIDPAKGGKH 308
      249 AYLGSANRYAOKRPNALAQADVULTEVGNPNYFAEVSKAFTKNTREPLQIDIDPAKGGKH 308
QY      302 TYKYPTGTGVAAETENILPHVKEKIDRSFLDML--KANEKLSVYETIYHNNEKAVP 358
      302 TYKYPTGTGVAAETENILPHVKEKIDRSFLDML--KANEKLSVYETIYHNNEKAVP 358
Db      309 KTDIAYLADAOQTLLAIIQVSERESTPWWQANLANVKWRAVYASLEB-----KQEBP 362
      309 KTDIAYLADAOQTLLAIIQVSERESTPWWQANLANVKWRAVYASLEB-----KQEBP 362
QY      359 IHPEVYASILNELADKAVETVDTGMCNWMHARYIENPEGRDFOGSPFHGTMANLPLHA 418
      359 IHPEVYASILNELADKAVETVDTGMCNWMHARYIENPEGRDFOGSPFHGTMANLPLHA 418
Db      363 LQAYQLAVRNKIAEPDALYSIDVGDINLMANRHKLTPSNHHTISNL-FATMGVIGIRGA 421
      363 LQAYQLAVRNKIAEPDALYSIDVGDINLMANRHKLTPSNHHTISNL-FATMGVIGIRGA 421
QY      419 IGAQSDNRKQRYIAMCGDGLMLGELLTYKIHQPLKAVVENNSSLSGMVLEMLVEGO 478
      419 IGAQSDNRKQRYIAMCGDGLMLGELLTYKIHQPLKAVVENNSSLSGMVLEMLVEGO 478
Db      422 IAAKLNYPEROVFNLAGDSGMTQMDLTVOYUHLPVYNVETFCQYGFIDKEDEDTNQ 481
      422 IAAKLNYPEROVFNLAGDSGMTQMDLTVOYUHLPVYNVETFCQYGFIDKEDEDTNQ 481
QY      479 PEF-ETDHEEVFAEIAAAGIKSVRIETDPKKVRE--OLAELAVAPPLIDIV 529
      479 PEF-ETDHEEVFAEIAAAGIKSVRIETDPKKVRE--OLAELAVAPPLIDIV 529
Db      482 NDFIGVEFNIDFSKIDAGVHMQALRVNKTIEDLPDVFQAKAIQAHEPLIDAV 535
      482 NDFIGVEFNIDFSKIDAGVHMQALRVNKTIEDLPDVFQAKAIQAHEPLIDAV 535

```

RESULT 2
 US-08-455-355-2
 ; Sequence 2, Application US/08455355
 ; Patent No. 5928937
 ; GENERAL INFORMATION:
 ; APPLICANT: Kaketuda, Genichi
 ; APPLICANT: Otc, Karl-Heinz
 ; APPLICANT: Kwagh, Jae-Gyu
 ; APPLICANT: Stockton, Gerald W.
 ; TITLE OF INVENTION: Structure-Based Designed Herbicide
 ; TITLE OF INVENTION: Resistant Products
 ; NUMBER OF SEQUENCES: 10
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Dardy & Darby
 ; STREET: 805 Third Avenue
 ; CITY: New York
 ; STATE: New York
 ; COUNTRY: USA
 ; ZIP: 10022-7513
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/455,355
 ; FILING DATE: 31-May-1995
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Robinson, Joseph
 ; REGISTRATION NUMBER: 33,448
 ; REFERENCE/DOCKET NUMBER: 0646/1A674-US1
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (212)-527-7783

[illegible]

COUNTRY: USA
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/452,075
FILING DATE: 26-MAY-1995
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: JP 116340/1994
FILING DATE: 30-MAY-1994
ATTORNEY/AGENT INFORMATION:
NAME: OHLON, NORMAN F.
REGISTRATION NUMBER: 08/452,075
REFERENCE/DOCKET NUMBER: 10-741-0
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 413-3000
TELEFAX: (703) 413-2220
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 548 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-452-075-3

Query Match 17.2%; Score 514; DB 2; Length 548;
Best Local Similarity 30.1%; Pred. No. 3e-43;

Matches 164; Conservative 91; Mismatches 249; Indels 40; Gaps 13;

QY 6 AEOILDTLEAGVKRYTGLVGSLSNPVDAVROSDEIEMVHVRNEEAAFAAGAESLITGE 65
DB 4 AQVNVHNRKQGVNFGYPCGAIMPVYDALYDGVENHLCRHGGAAMAATGYARATGK 63
QY 66 LNVCAASCGPGNTHLQGLYDSHRNGAKVLATSHIPSAGISSTFOETPELIFKCSG 125
DB 64 TGVCIATSCGATNLTGLDALDLSIPVATIGOVSAPIGTDARQEDVVLGLSLACTK 123
QY 126 YCEMVNGEGGERILHHAIOSTMAK-GVSVVYIPGDIKEDAGDGTYSNSTISGTPV 184
DB 124 HSFVYOSLEELPRIMAEPRVACSGRGPVLDIPKDI-QLASGDELPWTYVEN--EVT 180
QY 185 FPDPTFAALVEAINNAAKSVTLFCGAGVKNARA--OVLEIAEKIKSPIGHALGKQYI 242
DB 181 FPH-AEVEQARQMLAKAQKPMLYVGGVGAQVAPALREFLATKMPATCTLKGAVEA 239
QY 243 ENFEVGMGSLGCGACVDASNEADLLILGTF-----PYSDPLPKDVAQVDINGAH 296
DB 240 DRYVYLCMGMHTKANKRAVQSCDLLIAVGAFFDRVTGKLTGFAFPAHVASVIMHDDIPAE 299
QY 297 IGRRTTVKVPVTDVAATFENILPHYKEKTRSFDRMLKABRKLSSVETVTHNVEKH 356
DB 300 MNKLRANHALGQDLNALLPALDOOLPNCMOCHCAOLRBEHSMR-----YDH----- 347
QY 357 VPIHPEVASTLNEADK--DAVFTVDTGCMVNHARYTEN--PGSTRDVFSGFRHGTM 411
DB 348 -PEDAIYAPLLTKQLSDRKPADCVVTTDVQOHMAAQAHIATHRPE---NFTISSGLGTM 403
QY 412 ANMLPNAIGASVDRNRQVYIAMCGDGLGLLGLLELLTVKIHQPLRAVYVNNNSLGVKL 471
DB 404 GFGLPAAVGAQVAPNDTVVCISGDSFMMNVDELGTGVRKKQLPLKIVLLDNRQLGVNRQ 463
QY 472 EMLVEGQPERG---TDHEEVNFAEIAAAGIKSVRTTDPKRVREOLAELAVPGVLD 527
DB 464 WOOLFQERKSETTLTDNPD--FLMLASAFGIHGCHITRKDOVEALDPTLNSDGPILLH 521
QY 528 IYWD 531

DB 522 VSID 525

RESULT 4

US-08-426-125-8

Sequence 8, Application US/08426125
Patent No. 5853973

GENERAL INFORMATION:

APPLICANT: Kakefuda, Genichi

APPLICANT: Ott, Karl-Heinz

APPLICANT: Kuegh, Jae-Gyu

TITLE OF INVENTION: Structure-Based Designed Herbicide

TITLE OF INVENTION: Resistant Products

NUMBER OF SEQUENCES: 10

CORRESPONDENCE ADDRESS:

ADDRESSEE: Darby & Darby

STREET: 805 Third Avenue

CITY: New York

STATE: New York

COUNTRY: USA

ZIP: 10022-7513

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/426,125

FILING DATE: 20-APR-1995

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Robinson, Joseph

REFERENCE/DOCKET NUMBER: 33,448

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212)-527-7783

TELEFAX: (212)-753-6237

TELEX: 236687

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:

LENGTH: 671 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

MOLECULE TYPE: protein

HYPOTHETICAL: NO

ORIGINAL SOURCE:

ORGANISM: Arabidopsis thaliana

US-08-426-125-8

Query Match 16.7%; Score 497.5; DB 2; Length 671;
Best Local Similarity 27.4%; Pred. No. 2e-41;

Matches 157; Conservative 97; Mismatches 261; Indels 59; Gaps 13;

QY 6 AEOILDTLEAGVKRYTGLVGSLSNPVDAVROSDEIEMVHVRNEEAAFAAGAESLITGE 64
DB 100 ADILVELEKQGVETFAVPGASMETHQALTSSIRNLPNRHGGVFAAGAYARSSG 159
QY 65 ELAVCAASCGPGNTHLQGLYDSHRNGAKVLATSHIPSAGISSTFOETPELIFKCSG 124
DB 160 KPGICATISGPGATNLYSGLADLDSVPLVATIGOVPRMIGTDAFOETPIYEVTRST 219
QY 125 YCEMVNGEGGERILHHAIOSTMAK-GVSVVYIPGDIKEDAGDGTYSNSTISGTPV 183
DB 220 KHNVLWVDVEDIRITEAEFLATSGRGPVLDVDPKDI-QOOLAIIPNMQARLRPGYS 278
QY 184 VFPDPTFAAL--VEINNAKSVTLFCGAGVKNARQVLELAEKIKSPIGHALGKQYI 240
DB 279 RMPKPPEDSHLEQIVRLISSEKRPVLYVGGCLNSSDELGRFVELTGIPVASTLMGGSY 338
QY 241 QHENPEVGMGSLGCGACVDASNEADLLILGTF-----PYSDPLPKDVAQVDING 294

Db 339 PCDDLSLHMLGHTGYVANYAVNEHSDLLAFGVFDDRVYTGKLEAFASRAKIVHIDIS 398
QY 295 AHIGRTTVKYPVTDVAATTENILPHVKEKTRDSFLDRLM--KAHERKLSVVEYETHN 352
Db 399 AEIKNKTPHVSVCDDVKALOG-----MKVLENAEELKIDFGVWRNELN 445
QY 353 VEKH-----VPIHPEVASILNELADKDAVFTVDTGCMVNHARYTENEGTRDF 402
Db 446 VOKKRFPLSEFTGFEALIPPOYAIKIVDELDTGKALISTGVGOHOMMAOFYNNKKPRRW 505
QY 403 VGSFRHGTMANALPHAIGASVDNRNROYIAMCGGGLMGLLGYTKLHQLPKAVFN 462
Db 506 LSSGGLAMGCGLPALGASVANDPAIVDIDGGSFIMNVQELATRVENLPVKVLLN 565
QY 463 NSSIGMKLEMLVE-----GOPEFGTDHEV--NFAEIAAAGIKSVRTIDP 507
Db 566 NOHIGMV---MOWEDRFYKANRAHTFLGDP---AQEDEIFPNMLLFAACGIPARVYTK 619
QY 508 KKVREQLAEALATPGPVLIDVTPNALSIPTT 541
Db 620 ADLREALQTMIDTPGYPYLDVIC-PhoeHVLPMI 652

RESULT 5

US-08-455-355-8
Sequence 8, Application US/08455355
Patent No. 5928937
GENERAL INFORMATION:
APPLICANT: Kakefuda, Genichi
APPLICANT: Oti, Karl-Heinz
APPLICANT: Kwagh, Jae-Gyu
APPLICANT: Stockton, Gerald W.
TITLE OF INVENTION: Structure-Based Designed Herbicide
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Darby & Darby
STREET: 805 Third Avenue
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10022-7513
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/455,355
FILING DATE: 31-MAY-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Robinson, Joseph
REGISTRATION NUMBER: 33, 448
REFERENCE/DOCKET NUMBER: 0646/1A674-US1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212)-527-7783
TELEFAX: (212)-753-6237
TELEX: 236687
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 671 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Arabidopsis thaliana
US-08-455-355-8

Query Match 16.7%; Score 497.5; DB 2; Length 671;
Best Local Similarity 27.4%; Pred. No. 2e-41;
Matches 157; Conservative 97; Mismatches 261; Indels 59; Gaps 13;

QY 6 AEQLIDLEAGVKRYIGVDSLNPYDAV--ROSDIEWVHYRNEEAFAAGASLITG 64
Db 100 ADLIVALEBROGVEYEVFAVPGASMEIHQALTRSSIRNVLPRHGGVFAAEGVARSBG 159
QY 65 ELAVCAASGCPNTHILQGLYSHRNKAKVLAIASAIGSTFFQDETHPELIFECS 124
Db 160 KECICATISGPATNIVSGLADALDSVPLVAITQVPRRMIGTDAFQETPIVEVTR5IT 219
QY 125 GYCEWVNGGEGEERILNHAISTMAGK--GVSVVPIGDIKEDADGYSSTISSGPV 183
Db 220 KHNIVLMDEDIPRIIEEFPLATSGRGCPVIVDPKPI--QOQAIPIWEDAMRLPGTMS 278
QY 184 VPPDPLEAAL--VEAINNAKSVTLFCGAGYKNAKRAOVLAEKIKSPIGHALGKOYI 240
Db 279 RMRKPPEDSHLEQIVRLISESKRPVLYGGGLNSDELGRFVELTGIPVASTIMLGGSY 338
QY 241 OHENPFEGMSGILGYGACVDSNADLLILIGTDF-----PISDFLPKNOVAQVDING 294
Db 339 PCDDLSLHMLGHTGYVANYAVNEHSDLLAFGVFDDRVYTGKLEAFASRAKIVHIDIS 398
QY 295 AHIGRTTVKYPVTDVAATTENILPHVKEKTRDSFLDRLM--KAHERKLSVVEYETHN 352
Db 399 AEIKNKTPHVSVCDDVKALOG-----MKVLENAEELKIDFGVWRNELN 445
QY 353 VEKH-----VPIHPEVASILNELADKDAVFTVDTGCMVNHARYTENEGTRDF 402
Db 446 VOKKRFPLSEFTGFEALIPPOYAIKIVDELDTGKALISTGVGOHOMMAOFYNNKKPRRW 505
QY 403 VGSFRHGTMANALPHAIGASVDNRNROYIAMCGGGLMGLLGYTKLHQLPKAVFN 462
Db 506 LSSGGLAMGCGLPALGASVANDPAIVDIDGGSFIMNVQELATRVENLPVKVLLN 565
QY 463 NSSIGMKLEMLVE-----GOPEFGTDHEV--NFAEIAAAGIKSVRTIDP 507
Db 566 NOHIGMV---MOWEDRFYKANRAHTFLGDP---AQEDEIFPNMLLFAACGIPARVYTK 619
QY 508 KKVREQLAEALATPGPVLIDVTPNALSIPTT 541
Db 620 ADLREALQTMIDTPGYPYLDVIC-PhoeHVLPMI 652

RESULT 6
US-08-363-208-2
Sequence 2, Application US/08363208
Patent No. 5767366
GENERAL INFORMATION:
APPLICANT: Sathasivan, Kanagasabapathi
APPLICANT: Murali, No. 5767366imoto
TITLE OF INVENTION: A Mutant Acetolactate Synthase Gene From
NUMBER OF SEQUENCES: 2
TITLE OF INVENTION: Resistance To Crop Plants
CORRESPONDENCE ADDRESS:
ADDRESSEE: Llewellyn A. Proctor, Sr.
STREET: 11481 Sheraton drive
CITY: Baton Rouge,
STATE: LA
COUNTRY: USA
ZIP: 70815
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/363,208
FILING DATE:
CLASSIFICATION: 800
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/657,429
FILING DATE: 19-FEB-1991
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Proctor St., Llewellyn A.
REGISTRATION NUMBER: 20,152
REFERENCE/DOCKET NUMBER: 013911-001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (504)275-8689
INFORMATION FOR SEQ. ID NO. 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 670 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-363-208-2

Query Match 16.5%; Score 493; DB 1; Length 670;
Best Local Similarity 27.5%; Pred. No. 5,6e-41;
Matches 158; Conservative 97; Mismatches 259; Indels 60; Gaps 14;

QY 6 AEQIDITLLEAGVKRYIGLVGDSINPIVDVAV-RQSDIEWVHVNNEEAAPAGAESLITG 64
DB 100 ADILVLEALERQGVETVFAVPGASMEIHQALTRSSSTRNVLPHEEOGVAAAGYARSSG 159
QY 65 ELAVCAASGPGNTHLIGLYDSHRNGAKVLAISHIPSAOIGSTFPOETHPEILFEKCS 124
DB 160 KPGICATISGPGATNLVSGGLADLDSVPLVATIGQVPRMIGTDAFOETPIYEVTRST 219
QY 125 GYCEMVNGSGRGRILHHAIOSTMACK-GVSVVYIPDIAKEDAGDGTYSNSTISGTPV 183
DB 220 KHNVLVMDVEDIPRIIEAFELATSGRGPVLVDVPRKI-QOOLATIPNMQAPRLPGYMS 278
QY 184 VFDPPTAAAL---VEAINNASKVTLEFCGAGVNKARQVLELEKIKSPIGHALGKQYI 240
DB 279 RMKRPEDSHLEQIVRLISSEKRPVLYVGGGCLNSDELGRFVELTGCIPVASTLMGIGSY 338
QY 241 QHENPEVSGSLGAGYACVDASNEADLLILGTFD-----PYSDFLPKDNVAQVDING 294
DB 339 PCDELSTLIMLGMHGYVYANVAEHSDDLAFGRFDRDTGKLEAFASAKYIHIDIDS 398
QY 295 AHIGRTTYKVPYTGDAATIENTILPRVKEKTDSPFLRML--KAHERKLSVVEYTYHN 352
DB 399 AEIGKNTKTPHVSVCQDKVALOG-----MNKYLENRAEELKIDFGVMRELN 445
QY 353 VEKH-----VPIHPYVASILNELADKDAVFVDVDMCNVHARIENPEGRDF 402
DB 446 VOKRPPSLFKPTGCAIPPOYAIKVLDELTDGKAIIISTGVGOHOMMAOQY-NYKPRPW 504
QY 403 VGSFRIGTMANALPHIAGQSVDRNROVIMCGDGLMGLGELLTVYKHLQPLKAVFN 462
DB 505 LSSGGGLAMKFGIPRAIIGASVANPDALVIDDDGSFIMVQELATIRVNLKPVLLN 564
QY 463 NSSLGWVLELVE-----GQPEFTDHEEV--NFAETAAAGIKSVRTIDP 507
DB 565 NQHLGW---MQMEDREFFYKANRAITFLGDP---AQEDEIRPNMLLFAACGIPPAARVTK 618
QY 508 KKYREQLAEALATPPGLIDIVTDPNALSTIPPI 541
DB 619 ADLREAIQTMLDTPPGYLLDVIC-PRQEHVLPMI 651

RESULT 7
US-08-426-125-9
Sequence 9, Application US/08426125
Patent No. 5853973
GENERAL INFORMATION:
APPLICANT: Kakefuda, Genichl
APPLICANT: Oti, Karl-Helinz
APPLICANT: Kwagh, Jae-Gyu
APPLICANT: Stockton, Gerald W.
TITLE OF INVENTION: Structure-Based Designed Herbicide

TITLE OF INVENTION: Resistant Products
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Darby & Darby
STREET: 805 Third Avenue
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10022-7513
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/426,125
FILING DATE: 20-APR-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Robinson, Joseph
REGISTRATION NUMBER: 33,448
REFERENCE/DOCKET NUMBER: 0646/0A674
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212)-527-7783
TELEFAX: (212)-753-6237
TELEX: 236687
INFORMATION FOR SEQ. ID NO. 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 652 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHEICAL: NO
ORIGINAL SOURCE:
ORGANISM: Brassica napus
US-08-426-125-9

Query Match 16.0%; Score 477; DB 2; Length 652;
Best Local Similarity 26.1%; Pred. No. 2,2e-39;
Matches 148; Conservative 104; Mismatches 270; Indels 44; Gaps 12;

QY 6 AEQIDITLLEAGVKRYIGLVGDSINPIVDVAV-RQSDIEWVHVNNEEAAPAGAESLITG 64
DB 82 ADILVLEALERQGVETVFAVPGASMEIHQALTRSSSTRNVLPHEEOGVAAAGYARSSG 141
QY 65 ELAVCAASGPGNTHLIGLYDSHRNGAKVLAISHIPSAOIGSTFPOETHPEILFEKCS 124
DB 142 KPGICATISGPGATNLVSGGLADLDSVPLVATIGQVPRMIGTDAFOETPIYEVTRST 201
QY 125 GYCEMVNGSGRGRILHHAIOSTMACK-GVSVVYIPDIAKEDAGDGTYSNSTISGTPV 183
DB 202 KHNVLVMDVEDIPRIIEAFELATSGRGPVLVDVPRKI-QOOLATIPNMQAPRLPGYMS 260
QY 184 VFDPPTAAAL---VEAINNASKVTLEFCGAGVNKARQVLELEKIKSPIGHALGKQYI 240
DB 261 RLQRPPEVSOLGIVRLISSEKRPVLYVGGGCLNSSELEGRFVELTGCIPVASTLMGIGSY 320
QY 241 QHENPEVSGSLGAGYACVDASNEADLLILGTFD-----PYSDFLPKDNVAQVDING 294
DB 321 PCDELSTLIMLGMHGYVYANVAEHSDDLAFGRFDRDTGKLEAFASAKYIHIDIDS 380
QY 295 AHIGRTTYKVPYTGDAATIENTILPRVKEKTDSPFLD-----RMLKAHERKLSVVEYTY 349
DB 381 AEIGKNTKTPHVSVCQDKVALOGMNKYLENRAEELKIDFGVMRELNSEQOKRPPSLFKPT 440
QY 350 THNVEKHPPIHPREYVASILNELADKDAVFVDVDMCNVHARIENPEGRDFEVSFRHG 409
DB 441 GE-----ALPPOYAIQVDELTDGKAIIISTGVGOHOMMAOQYKYK-KPRHLSGSLG 493
QY 410 TMANALPHATGAOSVDRNROVIMCGDGLMGLGELLTVYKHLQPLKAVFNNSISLGY 469

Db 494 AMFGFLPALGASVANPDATVVDIDGDSFTIMVQELATIRENLPVKILLNNQHLGMV 553
QY 470 KLEMLVEGOPEF-----GTDHEE---VNFAEIAAAGIKSVRITDPKKVREGOLA 515
Db 554 -----MOWEDRFYKANRAHTYLGDPARENELFPNMLQFAGACGIPARAVTKKELREAIQ 608
QY 516 EALAYGPLYLDIVDPNALSIPTI 541
Db 609 TMLDTPGYLLDVIC-PROEHVLPMI 633

RESULT 8

US-08-455-355-9
Sequence 9, Application US/08455355
Patent No. 5928937
GENERAL INFORMATION:
APPLICANT: Kakefuda, Genichi
APPLICANT: Ott, Karl-Heinz
APPLICANT: Kwagh, Jae-Gyu
APPLICANT: Stockton, Gerald W.
TITLE OF INVENTION: Structure-Based Designed Herbicide
TITLE OF INVENTION: Resistant Products
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Darby & Darby
STREET: 805 Third Avenue
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10022-7513
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/455,355
FILING DATE: 31-May-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Robinson, Joseph
REGISTRATION NUMBER: 33,448
REFERENCE/DOCKET NUMBER: 0646/1A674-US1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212)-527-7783
TELEFAX: (212)-753-6237
TELEX: 236687
INFORMATION FOR SEQ. ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 652 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Brassica napus
US-08-455-355-9

Query Match 16.0%; Score 477; DB 2; Length 652;
Best Local Similarity 26.1%; Pred. No. 2.2e-39;
Matches 148; Conservative 104; Mismatches 270; Indels 44; Gaps 12;

QY 6 AROGLDTLEAGCVKRTYGLVGSLSNPYDAV-ROSDIEVHYRNEEAFAAGASLTIG 64
Db 82 ADILVEALERQGVETVFAYPGASMEIHQALRRSSTRNVLPRIHQGVFAEGYARRSG 141
QY 65 ELAVCAASGPGNTFLIOGLVYSHRNGAKVLAIASHIPSAOIGSTFEOTTHEILFKES 124
Db 142 KRGICATISGPGATNLYSLADAMDSVLAIVITGOVPRRMIGTAFQETPIVEYTRST 201
QY 125 GYCEWVNGGEGERILHHAIOSTMAKQ-GVSVVVIPIGDIAKEDAGTYNSSTISSGTPV 183

Db 202 KHNHYLMDVDDIPRIYQEAFFLATSGRPGPVLVDYPKDI-QOOLAIPWDDQPMRLPGYMS 260
QY 184 VEPDDPEAAAL---VEAIIINAASVTLLFCAGVKNARAQVLEAEIKSPIGHALGGQYI 240
Db 261 RLPQPPREVSQLOQYKRLISEKRPVLYVGGSLNSSEELGRVELTGPVASTLGLGASY 320
QY 241 QHENPPEVMSGLLGXGACVDASNEADLLILGTFD-----PYSDFLPKDNVAQVING 294
Db 321 PCNDELISQMLGCHGVYANYAVESHDDLAFGVNFRDVRVTKLPAFASRAKIYHIDIS 380
QY 295 AHIGRRITYKYVYTGDAVTIENILPHYKEDRSFLD-----RNLKAHERKLSVETY 349
Db 381 ABIGKKTTPHVSVCQDVKLLALGKMKVLENRAEELKLDGVRSELSEQKQFPLSEKTF 440
QY 350 TNVKEKHYPIHPEYVASILNELADKAVFTVDTGCMNWHARYENPGTDVPSFHHG 409
Db 441 GE-----AIPQYAIQVDELTKQKALITSGVGQHQWMAQFYKRR-PRQWSSSGLG 493
QY 410 TMANALPHAIGASVDNRQVIAKMGDGLGMLLGLLTVKLHQLPKRAVENNSLSGMV 469
Db 494 AMFGFLPALGASVANPDATVVDIDGDSFTIMVQELATIRENLPVKILLNNQHLGMV 553
QY 470 KLEMLVEGOPEF-----GTDHEE---VNFAEIAAAGIKSVRITDPKKVREGOLA 515
Db 554 -----MOWEDRFYKANRAHTYLGDPARENELFPNMLQFAGACGIPARAVTKKELREAIQ 608
QY 516 EALAYGPLYLDIVDPNALSIPTI 541
Db 609 TMLDTPGYLLDVIC-PROEHVLPMI 633

RESULT 9

US-08-426-125-7
Sequence 7, Application US/08426125
Patent No. 5853973
GENERAL INFORMATION:
APPLICANT: Kakefuda, Genichi
APPLICANT: Ott, Karl-Heinz
APPLICANT: Kwagh, Jae-Gyu
APPLICANT: Stockton, Gerald W.
TITLE OF INVENTION: Structure-Based Designed Herbicide
TITLE OF INVENTION: Resistant Products
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Darby & Darby
STREET: 805 Third Avenue
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10022-7513
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/426,125
FILING DATE: 20-Apr-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Robinson, Joseph
REGISTRATION NUMBER: 33,448
REFERENCE/DOCKET NUMBER: 0646/0A674
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212)-527-7783
TELEFAX: (212)-753-6237
TELEX: 236687
INFORMATION FOR SEQ. ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 664 amino acids
TYPE: amino acid
STRANDEDNESS:

TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-426-125-7

Query Match 15.2%; Score 454; DB 2; Length 664;
Best Local Similarity 25.1%; Pred. No. 4.9e-37;
Matches 145; Conservative 102; Mismatches 263; Indels 68; Gaps 13;

6 AEOIDITLLEAGVKRIYGLVDSINPIYDAV-RQSDIEWHVHNEEAFAAGASLITG 64
SDVLEALEEGVTDVFAFYGGASMETHOLITSSITRNLPHEOGVFAAGCYAATG 153
ELAVCAASCPGCMTHLQGLYDSHRNCAVLAISHIPAQISTPFOETHPETLFECS 124
FPGVCATISPGATNLYSGLDLDSVPVIAITGVPRMIGTDAQOETPIYEVTSTIT 213
GCEMVNGGEGEIRILHAIQSTMAK-GVSVVYIPGDIKEDAGDGTYSNSTISGTPV 183
KHYLVMDVEDIPRVVREAFELARSGRCPVLIDVPKDIQO-----L 256
VFPD-----PTE--AAALVEAINNAKSVTLFCGAGVKNARQVLELAE 224
VLPDMQPMRLPGYMSRLPKLPNEMLEQIVRLISESKKPVLYVGGCQSSSEELRFEV 316
KIKSPIGHALGKQYIOHENPFEVMSGLYGACVDASNEADLLILGTF-----PY 278
LGTIPVASTLMGAGFRTGDELSMLGMHGTIVANYAVDSDDLAFGVRFDRTYTKL 376
SDLPKDNVAOVINDCAHIGRRTTVKPYTGDAATIENTILPHVKEKTRDSFLDRMLKAH 338
EAFASRAKIVHIDISDAEIKKQPHVSCADIKIALQGLNSTILESKEGKLKLD--FSAW 434
ERKLSVETTYTHNVEKH-VPIREYVASILNELADKDAFTYDTGCMNVIHARYTENPE 397
RQELTVOKKVPYLPNFKFGGAIIPROYAIOVLELTNGSALITSGVGHQMAAQYKRRK 494
GTRDPVSGFRHGTMANALPAIGAOSVDRNRQVYIAMCGDGLMGLLTVKLRPLK 457
PROMLTSSGLGAMGELPAIGAANGRPDEVYVDDIGDGSFLINNOVELTITVENLPVK 553
AVFNNSSICMVKLEMLVEGQPEF-----GTDHEV---NPAETIAAAGIKSVR 503
IMLNNQHLCMV-----VQWEDREFYKANRAHTYLGNPSNEAEIIPNMLKFAEACGVPAAR 608
ITDPKKYREQLAELAVPGVLIIDIVDPNALSIPTI 541
VTHRDILRAAIQKMLDTPGPLYLDVIV-PROEHVLPMT 645

RESULT 10
US-08-455-355-7
Sequence 7, Application US/08455355
Patent No. 5928937
GENERAL INFORMATION:
APPLICANT: Kakefuda, Genichi
APPLICANT: Ott, Karl-Heinz
APPLICANT: Kwagh, Jae-Gyu
APPLICANT: Stockton, Gerald W.
TITLE OF INVENTION: Structure-Based Designed Herbicide
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Darby & Darby
STREET: 805 Third Avenue
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10022-7513
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/455,355
FILING DATE: 31-May-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Robinson, Joseph
REGISTRATION NUMBER: 33,448
REFERENCE/DOCKET NUMBER: 0646/1A674-US1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212)-527-7783
TELEFAX: (212)-753-6237
TELEX: 236687
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 664 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-455-355-7

Query Match 15.2%; Score 454; DB 2; Length 664;
Best Local Similarity 25.1%; Pred. No. 4.9e-37;
Matches 145; Conservative 102; Mismatches 263; Indels 68; Gaps 13;

6 AEOIDITLLEAGVKRIYGLVDSINPIYDAV-RQSDIEWHVHNEEAFAAGASLITG 64
SDVLEALEEGVTDVFAFYGGASMETHOLITSSITRNLPHEOGVFAAGCYAATG 153
ELAVCAASCPGCMTHLQGLYDSHRNCAVLAISHIPAQISTPFOETHPETLFECS 124
FPGVCATISPGATNLYSGLDLDSVPVIAITGVPRMIGTDAQOETPIYEVTSTIT 213
GCEMVNGGEGEIRILHAIQSTMAK-GVSVVYIPGDIKEDAGDGTYSNSTISGTPV 183
KHYLVMDVEDIPRVVREAFELARSGRCPVLIDVPKDIQO-----L 256
VFPD-----PTE--AAALVEAINNAKSVTLFCGAGVKNARQVLELAE 224
VLPDMQPMRLPGYMSRLPKLPNEMLEQIVRLISESKKPVLYVGGCQSSSEELRFEV 316
KIKSPIGHALGKQYIOHENPFEVMSGLYGACVDASNEADLLILGTF-----PY 278
LGTIPVASTLMGAGFRTGDELSMLGMHGTIVANYAVDSDDLAFGVRFDRTYTKL 376
SDLPKDNVAOVINDCAHIGRRTTVKPYTGDAATIENTILPHVKEKTRDSFLDRMLKAH 338
EAFASRAKIVHIDISDAEIKKQPHVSCADIKIALQGLNSTILESKEGKLKLD--FSAW 434
ERKLSVETTYTHNVEKH-VPIREYVASILNELADKDAFTYDTGCMNVIHARYTENPE 397
RQELTVOKKVPYLPNFKFGGAIIPROYAIOVLELTNGSALITSGVGHQMAAQYKRRK 494
GTRDPVSGFRHGTMANALPAIGAOSVDRNRQVYIAMCGDGLMGLLTVKLRPLK 457
PROMLTSSGLGAMGELPAIGAANGRPDEVYVDDIGDGSFLINNOVELTITVENLPVK 553
AVFNNSSICMVKLEMLVEGQPEF-----GTDHEV---NPAETIAAAGIKSVR 503
IMLNNQHLCMV-----VQWEDREFYKANRAHTYLGNPSNEAEIIPNMLKFAEACGVPAAR 608
ITDPKKYREQLAELAVPGVLIIDIVDPNALSIPTI 541
VTHRDILRAAIQKMLDTPGPLYLDVIV-PROEHVLPMT 645

RESULT 11
US-08-426-125-6
Sequence 6, Application US/08426125
Patent No. 5853973
GENERAL INFORMATION:

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? APPLICANT: Kakefuda, Genichi
? APPLICANT: Ott, Karl-Heinz
? APPLICANT: Kwagh, Jae-Gyu
? APPLICANT: Stockton, Gerald W.
? TITLE OF INVENTION: Structure-Based Designed Herbicide
? TITLE OF INVENTION: Resistant Products
? NUMBER OF SEQUENCES: 10
? CORRESPONDENCE ADDRESSES:
? ADDRESSEE: Darby & Darby
? STREET: 805 Third Avenue
? CITY: New York
? STATE: New York
? COUNTRY: USA
? ZIP: 10022-7513
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patentln Release #1.0, Version #1.30
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/426,125
? FILING DATE: 20-APR-1995
? CLASSIFICATION: 435
? ATTORNEY/AGENT INFORMATION:
? NAME: Robinson, Joseph
? REGISTRATION NUMBER: 33,448
? REFERENCE/DOCKET NUMBER: 0646/0A674
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (212)-527-7783
? TELEFAX: (212)-753-6237
? TELETYPE: 236687
? INFORMATION FOR SEQ ID NO: 6:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 667 amino acids
? TYPE: amino acid
? STRANDEDNESS:
? TOPOLOGY: linear
? MOLECULE TYPE: protein
? HYPOTHEICAL: NO
? US-08-426-125-6

Query Match      15.2%; Score 454; DB 2; Length 667;
Best Local Similarity 25.0%; Pred. No. 4.9e-37;
Matches 147; Conservative 100; Mismatches 252; Indels 90; Gaps 14;

? 6 ABOIDTLEAGVGRITVGLVDSLNPIVDVAV-ROSDIEWVHVRNEAAFAAGASLITG 64
? 97 SDVLEALEREGETVDFVAFPGASMEIHQALTRSSITRNVLPRHEOGGVFAAGYARATG 156
? 65 ELAVCAASCGPNTHLIOGLYDSHRNGAKVLAIAASHIPSAQIGSTPFQETHPPELIFKES 124
? 157 PFGVCIAITSGPATNLVSLGADLDSVPVIAITGVPRRMIGTDAFOETPIVEYTRST 216
? 125 GYCEWVNGGEGERTLHHALIOSTNAGK-GVSVVVIPIGDIKEDAGDGYNSSTISSGPV 183
? 217 KHNIVLMVEDIPRVRAFFIARSGRGPILLIDVPKIDIOO-----L 259
? 184 VFPD-----PTE-----AAALVEALINNAKSVTLFCAGVKNRAOVLAE 224
? 260 VTPMDQPMRLPGVMSRLPKLPNEMLLQOIVRLISESKRPVLYVGGCSQSSQSEDLRREVE 319
? 225 KIKSIYGAHALGKQYIQHENPPEVMSGLLGACVDASNEADLLILITGDF-----PY 278
? 320 LTGIPVASTLMGLGAFPTGDELISMLGMHGTVVANYAVDSSDLLLAFGVAFDDRVTKGL 379
? 279 SDFLPKDVAOVADINGAHIGRTTYKPYVTDVATINIIIPHYKEKIDRSLDRMLKAH 338
? 380 EAFPSRAKIVIHIDISALIGKKNKOPHYSICADIKIALOG-----LMSILESK 426
? 339 ERKL-----SSVVEITYTHNVEKAV-----PIHPEVASTILNELADDAVFTVDGMCN 386
? 427 EGKILKDFSAARQELTEKQVKNHPNFNKTFFGAIIPQVIAIQVLDLITNGNAILISGVGOHQ 486
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? 387 VMHARYIENPEGTDPFVSGFRHGTMANLPHIGAQSVDRNQYIAMCGDGLGMLGEL 446
? 487 MAAQOYTKRK-PROWLISGGIGAMGFGIPATIGAAGRDEVDVLDGDSFTMNVOL 545
? 447 LTVKLHQLPLKAVVFNNSNAGVKLEMLVEGQPEF-----GTDHEEV---NFAE 492
? 546 ATIKVENLPVKIMLNLNQHLMV-----VQMEDRYKKNRAHTIYIGNSNELIIPNMLK 600
? 493 TAAAGIKSVRTIDPKKVRQEALEALAYPGVLIIDVTPNALSTIPPT 541
? 601 FAACGVPAARVTHRDILRAIQKMLDTPGPYLLDIV-PHOEHVLPMI 648

RESULT 12
US-08-455-355-6
? Sequence 6, Application US/08455355
? Patent No. 5928937
? GENERAL INFORMATION:
? APPLICANT: Kakefuda, Genichi
? APPLICANT: Ott, Karl-Heinz
? APPLICANT: Kwagh, Jae-Gyu
? APPLICANT: Stockton, Gerald W.
? TITLE OF INVENTION: Structure-Based Designed Herbicide
? NUMBER OF SEQUENCES: 10
? CORRESPONDENCE ADDRESSES:
? ADDRESSEE: Darby & Darby
? STREET: 805 Third Avenue
? CITY: New York
? STATE: New York
? COUNTRY: USA
? ZIP: 10022-7513
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patentln Release #1.0, Version #1.30
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/455,355
? FILING DATE: 31-MAY-1995
? CLASSIFICATION: 435
? ATTORNEY/AGENT INFORMATION:
? NAME: Robinson, Joseph
? REGISTRATION NUMBER: 33,448
? REFERENCE/DOCKET NUMBER: 0646/1A674-US1
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (212)-527-7783
? TELEFAX: (212)-753-6237
? TELETYPE: 236687
? INFORMATION FOR SEQ ID NO: 6:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 667 amino acids
? TYPE: amino acid
? STRANDEDNESS:
? TOPOLOGY: linear
? MOLECULE TYPE: protein
? HYPOTHEICAL: NO
? US-08-455-355-6

Query Match      15.2%; Score 454; DB 2; Length 667;
Best Local Similarity 25.0%; Pred. No. 4.9e-37;
Matches 147; Conservative 100; Mismatches 252; Indels 90; Gaps 14;

? 6 ABOIDTLEAGVGRITVGLVDSLNPIVDVAV-ROSDIEWVHVRNEAAFAAGASLITG 64
? 97 SDVLEALEREGETVDFVAFPGASMEIHQALTRSSITRNVLPRHEOGGVFAAGYARATG 156
? 65 ELAVCAASCGPNTHLIOGLYDSHRNGAKVLAIAASHIPSAQIGSTPFQETHPPELIFKES 124
? 157 PFGVCIAITSGPATNLVSLGADLDSVPVIAITGVPRRMIGTDAFOETPIVEYTRST 216
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Db 268 PSDDPLSLRMLGHHGVYANYAVDKADLLALGVREDDRVTKIEAFASRAKIVHVDIDP 327
QY 295 AHIGRTTVYYPVTGVAATIEINILPHVKERTDRSFLD-----RMLKAHERKLSVYETY 349
Db 328 AEIGKNKOPHVSTICADYKLLALQGMNALLEGSTSKSFDFGSMNDELDOCKREFFL---GY 384
QY 350 TNNVEKHVPDIHPEYVASILNELADKDAVPTVDTGMCNVWHARY--IENPEGTDRDEVGSFR 407
Db 385 KYSNEE---IOPQYAIQVDELTKGEAIIIGTVGOHOMAAQYTYKRP---RQWLSSAG 438
QY 408 HGTMANALPHAICGAQSVDRNRQVIAMCGDGLGMLLGELLTVKIHQIPLKAAYVFNNSLG 467
Db 439 LGAMGGLPAAGASVANPGVTYVDIDGDSFLMNVQELAMIRIENLPVKFVFLNNQHLG 498
QY 468 MVKLEMLVE-----GOPEFGTDHEV--NFAETAAAGIKSVRTDPKXY 510
Db 499 MV-----VQWEDRFYKANNRAHTYLGNE---NESEIYPDEVTLAKCFNIPAVRYTKKNEY 550
QY 511 RQQLAEALAYPGPVLIDIVTPNALSIPTT 541
Db 551 RAAIKKMLETPGPYLDIIV-PHQEHVLPWI 580

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Search completed: March 17, 2001, 21:52:20
 Job time: 2537 sec

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